

**MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF AERONAUTICS - STANDARD SPECIFICATION
L-101
Installation of Airport Rotating Beacons**

DESCRIPTION

1.1 This item shall consist of airport rotating beacons furnished and installed in accordance with this specification and shall conform to the design and dimensions shown in the plans. This work shall include the mounting, leveling, wiring, painting, servicing, and testing of a new or refurbished beacon and all materials and incidentals necessary to place the beacons in operating condition as a completed unit to the satisfaction of the Engineer. This item shall include a mounting platform if specified in the plans.

EQUIPMENT AND MATERIALS

2.1 General.

(a) New airport lighting equipment and materials shall be listed in the most recent Advisory Circular 150/5345-1, Approved Airport Lighting Equipment.

(b) All other equipment and materials covered by other referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when requested by the Engineer.

2.2 Beacon. The airport rotating beacon shall conform to Advisory Circular 150/5345-12, Specification for airport and heliport beacons. The beacon has one clear lens and one green lens.

2.3 Panel Boards and Breakers. Panel boards and breakers shall conform to the requirements of Fed. Spec. W-P-115.

2.4 Weatherproof Cabinets. The weatherproof cabinets shall conform to National Electrical Manufacturers Association standards and shall be constructed of steel not less than No. 16 USS gauge.

2.5 Wire. Wire rated up to 5,000 volts shall conform to Advisory Circular 150/5345-7, Specification for L-824 underground electrical cable for airport lighting circuits. For ratings up to 600 volts, thermoplastic wire conforming to Fed. Spec. J-C-30, Types TW, THW, and THWN, shall be specified for indoor use. Wire conforming to L-824 AC 150/5345-1 shall be specified for outdoor use. The wires shall be of the type, size, number conductors, and voltage shown in the plans or in the proposal.

2.6 Conduit. Rigid steel conduit and fitting shall conform to the requirements of Fed. Spec. WW-C-581.

2.7 Paint.

(a) Red lead priming paint for ungalvanized metal surfaces and the mixing thereof shall conform to the 97% grade in Fed. Spec. TT-R-191. The red lead shall be furnished in paste form and delivered to the job in the original unbroken packages bearing the maker's name and brand. The raw linseed oil, turpentine, and drier shall be in accordance with the Federal specifications listed below:

Raw Linseed Oil	TT-L-215
Turpentine	TT-T-801
Drier; Paint, Liquid, Type I	TT-D-651